

NOVEL PENICILLIN

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Abstract of JP57118587

NEW MATERIAL:A compound expressed by formula I (R is an amino acid residue; R<1> is H, a group for forming a protecting group, etc.; X is O and linked to the 2- or the 3-position of the piperazine ring; m is 3; R<2> and R<3> are linked to the same carbon atom; R<2>m and R<3>m are H, alkyl, etc.; A is H or alkyl, alkenyl, etc. which may have a substituent group, etc.). **EXAMPLE:**6-[D(-)-alpha-(4-n-Hexyl-2-oxo-1-piperazinocarbonylamino)phenyl acetamido]penicillanic acid. **USE:**An antimicrobial agent, having a wide antimicrobial spectrum against Gram-positive and Gram-negative bacteria, and particularly effective against *Pseudomonas aeruginosa*, *Klebsiella pneumoniae* and myxomycetes and further against drug-resistant germs. **PROCESS:**A compound expressed by formula II (R<6> is H, silyl, etc.; R<7> is H, a group for forming a protecting group, etc.) is reacted with a reactive derivative at the carboxyl group of a compound expressed by formula III to give the aimed compound expressed by formula I.

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